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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722,562	11/28/2003	Koichi Kaga	PTGF-03082 HIR.082	4987

21254 7590 10/21/2004

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VIENNA, VA 22182-3817

EXAMINER
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HAN, JASON

ART UNIT	PAPER NUMBER
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2875

DATE MAILED: 10/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/722,562	KAGA ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Jason M Han	2875	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 28 November 2003.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☒ Claim(s) 2 and 5 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

## **DETAILED ACTION**

### ***Priority***

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### ***Specification***

2. The disclosure is objected to because of the following informalities:
  - a. Page 1, Line 22: grammatical error – “change” to “changeable”;
  - b. Page 2, Line 6: insert “a” before “light bulb”;
  - c. Page 2, Line 10: insert “a” before “long”;
  - d. Numerous grammatical errors are replete throughout the application. The examiner has forgone any correction due to the amount, and the specification has not been checked to the extent necessary to determine the presence of all possible minor errors.

Appropriate correction is required.

### ***Claim Objections***

3. Claim 2 is objected to because of the following informalities: grammatical error – please rewrite to read as or similarly, “the holder has a pair of grooves on both its sides”. Appropriate correction is required.
4. Claim 5 is objected to because of the following informalities: grammatical error – please rewrite to read as or similarly, “attaching the holder to an other member”.

Appropriate correction is required.

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*The following rejections have been based upon a broad interpretation of the claims [MPEP 2111]. The applicant should be aware that the examiner acknowledges the structure of the LED lamp. Regardless, the following references cited are functionally equivalent, and the examiner considers the minor differences a matter of design preference.*

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***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takano et al. (U.S. Patent 5558543) in view of Serizawa et al. (U.S. Patent 6406173).
6. With regards to Claim 1, Takano teaches a connector attachment component wherein a holder for a lamp is made of an insulating material [Figure 1: (1); Column 3, Lines 30-38], and the holder is surrounded by and attached with a radiation unit made up of two metallic radiation plates [Figure 1: (7)] that are separated by the insulating holder and wherein each further includes a contact portion that provides electrical contact to the lamp [Figure 1: (5)] as well as a terminal that provides electrical communication with a power source for the lamp [Figure 1: (6)].

Takano does not specifically teach the lamp being an LED with a pair of terminals.

Serizawa teaches a vehicle lamp having an LED [Figure 2: (6)] and a connector piece [Figure 2: (5)].

It would have been obvious to modify the connector attachment component to incorporate the LED of Serizawa in order to provide a small yet powerful illumination that light-emitting diodes offer. Such LED lamps are commonly held and used in automobile vehicle lamps [see Column 1, Lines 14-17 of Serizawa], whereby it is known that an LED typically has a longer life and consumes less energy than a standard light bulb.

7. With regards to Claim 2, Takano teaches each of the radiation plates being formed approximately of a C-shape and further including a fitted portion [Figure 1: (6, 6a, 7a)] on one end and a contact portion on the other end [Figure 1: (5)]. Takano further teaches the holder having a pair of grooves wherein one of the pair of grooves receives the fitted portion [Figure 1: (6b); Column 3, Lines 54-57] and the other receives the contact portion [Figure 1: (1b)].

8. With regards to Claim 3, Takano teaches the contact portion being processed to have a spring force [Column 3, Lines 61-63].

9. With regards to Claim 4, Takano teaches the radiation plate having an aperture on a side surface thereof [Figures 1, 2: (8)], and the holder having a protrusion [Figure 2: (4)] to be engaged into the aperture in attaching the radiation plate to the holder [Column 3, Lines 57-60].

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10. With regards to Claim 5, Takano teaches the holder having an attachment section [Figures 1, 3, 4, 6, 7: top side of the holder] for attaching the holder to an other member on the end the LED is disposed [Column 3, Line 64 – Column 4, Line 10].

11. With regards to Claim 6, Takano teaches the other member including a reflector [Figures 1, 3, 4, 6, 7: (P); Column 3, Lines 64-65].

12. With regards to Claim 7, it is obvious that a lamp/LED would have a lateral emission direction that is approximately perpendicular to the center/optical axis of the lamp/LED. The applicant should further elucidate with regards to either a means or apparatus that directs the light from the lamp/LED to a lateral direction for the purpose of a wider distribution in illuminating.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following references are cited to further show the state of the art pertinent to the current application:

U.S. Patent 1747896 to Gates;	U.S. Patent 2949595 to Doeleman;
U.S. Patent 3887803 to Savage, Jr.;	U.S. Patent 4033658 to Asick;
U.S. Patent 4365396 to Baba et al.;	U.S. Patent 4644452 to Kasboske;
U.S. Patent 4758181 to Reedy;	U.S. Patent 4883434 to Toyoshima;
U.S. Patent 4894027 to Brantingham et al.;	U.S. Patent 4902251 to Grzena;
U.S. Patent 4959761 to Critelli et al.;	U.S. Patent 4968270 to Colleran et al.;
U.S. Patent 5008588 to Nakahara;	U.S. Patent 5080615 to Kondo;

U.S. Patent 5222803 to Kraus;	U.S. Patent 5368503 to Savage;
U.S. Patent 5427532 to Owen et al.;	U.S. Patent 5578893 to Yamamoto;
U.S. Patent 5630729 to Francis;	U.S. Patent 5634823 to Furuta et al.;
U.S. Patent 5709571 to Briski et al.;	U.S. Patent 5847512 to Baba et al.;
U.S. Patent 6120312 to Shu;	U.S. Patent 6152568 to Baba et al.;
U.S. Patent 6570308 to Helbig et al.;	U.S. Publication 2003/0058658 to Lee;
U.S. Publication 2003/0142508 to Lee.	

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason M Han whose telephone number is (571) 272-2207. The examiner can normally be reached on 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on (571) 272-2378. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.


Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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JMH



**JOHN ANTHONY WARD**  
**PRIMARY EXAMINER**